

CASIO QD-350

OPERATION MANUAL MANUAL DE OPERACION

MO06021801B (C) Printed in Japan

English

Thank you very much for your selection of the Casio QUICK DIALER QD-350. This is a portable electronic telephone book which, besides storing and dialing telephone numbers, may also be used as a calculator. Please read this manual carefully to fully understand each of its functions and handle it properly. Keep this manual on hand for later reference.

PRECAUTIONS

- This unit works only on push-button telephones with push-button telephone lines.
- This unit is constructed of precision electronic components and should not be exposed to temperature extremes, sudden temperature changes, bending, twisting, or strong impacts.
- The batteries should be removed from the unit if they become exhausted. Be sure to replace the batteries every two years regardless of how much they are used to avoid the chance of malfunctions due to battery leakage. Never allow batteries to be incinerated.
- Note that the manufacturer assumes no responsibility for any loss or claims by third parties which may arise through use of this unit.
- Note that the manufacturer assumes no responsibility for any damages incurred as a result of data loss caused by malfunctions, repairs or battery replacements. Physical records of important data should be prepared to protect against such data losses.
- Always perform calculations by pressing the correct keys while monitoring results on the display.
- Never bend the unit in the opposite direction. This could split the case, or break internal circuitry.

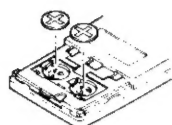
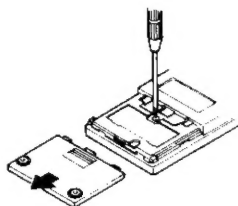
BATTERY REPLACEMENT

Note that either battery replacement or the reset operation will erase all data stored in the unit. Important data should be copied down on paper in advance of these operations.

- This unit is powered by two lithium batteries (CR2025).
- The following procedure should be performed when the display of the unit becomes difficult to read:

1. Press the OFF key to turn the power of the unit OFF.
2. Slide open the battery compartment cover on the back of the unit.
3. Remove the battery pressure plate after loosening the screw holding it in place.
4. Remove the old batteries.
5. Wipe the surface of new batteries with a soft, dry cloth and load them into the compartment so that the positive pole (+) is facing upwards.
6. Replace the battery pressure plate and replace the screw while pressing down on the batteries.
7. Press the ON key to turn power ON and then press the RESET button with a thin, pointed object. Note that this operation will erase all data stored in the unit.

- If the operation in step 7 does not cause "0." to appear on the display, remove the batteries again. Then press the RESET button at least 4 seconds and repeat steps 5 through 7.



IMPORTANT: Keep batteries away from small children. Contact a physician immediately if inadvertently swallowed.

AUTO POWER OFF FUNCTION

- The display as shown below appears on the display if the memory capacity is full. This indicates that there is no more memory area available. At this time, delete any data items which are no longer required.

SET FULL
50-50

• Memory capacity

The number of data items which can be simultaneously stored in memory differs according to the length of each item. The following table shows how to calculate the memory capacity according to the data length.

Numeric portion length	Memory used
12 digits or less	1 item (0.5 item)
13-24 digits	1.5 items (1 item)
25-36 digits	2 items (1.5 items)

- Spaces and hyphens contained within data items are also counted as digits.

- Number in parentheses indicates the memory used in the CRD/ID area. (See "CRD/ID NUMBER STORAGE FUNCTION" for CRD/ID area.)

• Capacity display

Pressing the CAP key while in the data display or set display shows the amount of memory currently used for storage of data (including secret area).

CAPACITY
10-50 (10 items stored)

- The display shown appears when 10 items up to 12 digits in length are stored, or when 5 items 25 to 36 digits long are stored.
- Fractions (see above) are rounded up to integers in the capacity display, but the actual amount of memory used for storage is counted as a fractional value. This means that the following capacity display would be shown when a single data item 13 to 24 digits long is stored in memory.

CAPACITY
02-50

Stored data are automatically sorted according to the character portion of eight characters in the order of:
space, period, numbers (0-9), letters (A through Z), hyphen.

DATA RECALL

This unit is equipped with both a sequential search function and an initial search function.

< Sequential search >

1. Press the F key, and the first data item is displayed.
2. Next, each press of the D (or B) key recalls data items in their sorted sequence, and each press of the R key recalls data items in reverse sequence.

< Initial search >

Press the key which corresponds to the first letter of the desired data, and the first data item that begins with that letter appears.

- In order to recall a data item that begins with a hyphen or period, using an initial search, press the H or P key after pressing the F key.

CORRECTING EXISTING DATA ITEMS

When inputting data, nothing is actually stored in memory until you press the F key.

Because of this, the procedure you use to make corrections or changes depends on whether or not you have pressed the F key.

1. Prior to pressing the F key
 - a) Use the D and B keys to move the cursor to the position to be corrected, and press the key which produces the appropriate letter or number.
 - b) After confirming that the data item is correct, be sure to press the F key.

2. After pressing the F key
 - a) Press the D key for the set mode display. Then recall the data item to be corrected by pressing the F key.
 - b) Press either the D key to locate the cursor at the beginning of the data item, or B to locate the cursor at the end of display.
 - c) Continue as outlined in 1.

Press the F key when new data input is required after an existing data correction. (Shows the set mode display.)

DELETING EXISTING DATA ITEMS

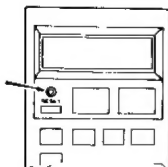
After performing the procedure outlined in "CORRECTING EXISTING DATA ITEMS" 2. a), pressing DEL deletes the displayed data item and advances to the display of the next data item.

SECRET FUNCTION

Assigning a password (up to 8 characters long) allows storage of data in a secret area only accessible to those who know the password.

PASSWORD REGISTRATION AND DATA INPUT

If the operation in step 7 does not cause "0" to appear on the display, remove the batteries again. Then press the RESET button at least 4 seconds and repeat steps 5 through 7.



IMPORTANT: Keep batteries away from small children. Contact a physician immediately if inadvertently swallowed.

AUTO POWER OFF FUNCTION

The power of the unit is automatically switched off approximately 6 minutes after the last key operation. Once this occurs, power can be restored by pressing the \odot key. Both stored data and memory contents are maintained when power is switched off by the auto power off function or by pressing the \odot key.

DATA STORAGE FUNCTION

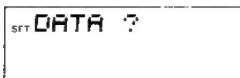
The data storage function of this unit allows storage of up to 50 data items. Each data item is divided into two groups. The first group (character portion) consists of 8 characters and can contain either letters or numbers. The second group (numeric portion) consists of numbers up to 36 digits long (standard length = 12 digits). Besides the normal data storage function which allows data recall with a press of the \odot key, a secret function is also provided which requires input of a preset password or code before data is displayed.

DATA INPUT

• Example

Input the data: CASIO 201-361-5400

1. Press MODE to specify the set mode.



Each press of MODE switches between the set mode and the data display mode.

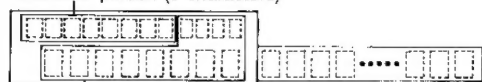
[SET MODE DISPLAY]

NO ENTRY

Data display without any data input

The illustration below shows the configuration of the character portion and numeric portion.

Character portion (8 characters)

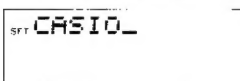


Numeric portion (standard = 12 digits
maximum = 36 digits
display length = 12 digits)

- * Only 12 digits of the numeric portion can be displayed at one time, and the remainder is scrolled using the PAGE and PAGE keys.

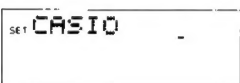
2. Press the keys as follows:

C A S I O



- * To change the input portion, move the cursor to the right using the PAGE key, and to the left using the PAGE key.

3. Press the PAGE key three times to move the cursor to the numeric portion of the display.



- * Up to 8 characters (alphabetic, numeric, symbol) can be input for the character portion of the display.

4. The same procedure is used for the input of numeric data. Actual numbers are input using the ten-key pad of the unit.

2 0 1 = 3 6 1 = 5 4 0 0

- * The PAGE or PAGE key can be used between numbers. PAGE enters a space, while PAGE enters a hyphen.

The 12th and subsequent entries in the numeric display (including PAGE and PAGE) causes the displayed number to shift to the left. Each entry causes the leftmost digit (in the upper line of the numeric display)

Press the PAGE key when new data input is required after an extension. (Shows the set mode display.)

DELETING EXISTING DATA ITEMS

After performing the procedure outlined in "CORRECTING EXISTING DATA ITEMS" 2. a), pressing PAGE deletes the displayed data item and to the display of the next data item.

Assigning a password (up to 8 characters long) allows the secret area only accessible to those who know the password.

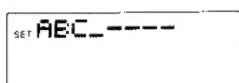
PASSWORD REGISTRATION AND DATA INPUT

1. Press MODE and MODE , and the password registration display appears.



2. Input your password, following the same procedure as that for data input.

Example: Registering "ABC" as password



3. Press the MODE key, and "ABC" is registered as password.



- * If the password input differs from the registered password, the secret area is not accessed. Reinput the right password.

Once a password is registered, it can only be altered or canceled by pressing the reset button on the back of the unit. (This operation causes all stored data to be erased.) If a registered password is forgotten, the only way to access the secret area is to reset the unit, erasing all data, registering a new password, and then reinputting data.

4. Input a data item and press PAGE key. Press the PAGE key to continue data input to the secret area.

- * Be sure to press either MODE or AC , \odot to cancel the secret area and return to the normal area.
- * Attempting to register a password longer than 8 characters will result in a password made up of the first 8 characters input only.
- * Only one password can be registered at a time.

RECALLING DATA FROM THE SECRET AREA

1. Press the MODE key, and the password registering display appears.
2. Input the password ("ABC" in the password registration example) and press the MODE key. This operation accesses the secret area and displays the first data item contained in that area. (see "DATA RECALL")
- * If the password input differs from the registered password, the password registering display appears again and the secret area is not accessed. Reinput the right password.

ADDING SECRET AREA DATA

1. Access the secret area.
2. Press PAGE for the set mode display.
3. Input the data to be added.

Data in the secret area can also be edited or deleted. (see "CORRECTING EXISTING DATA ITEMS", or "DELETING EXISTING DATA ITEMS")

AUTO DIAL FUNCTION

Pressing the PAGE key after recalling the desired telephone number automatically dials the displayed number.

• Positioning on the Handset

1. Lift the handset of the telephone and hold it vertically as illustrated.
2. Bring the bottom of the speaker on the back of the unit into contact with the recessed portion of the mouthpiece.
3. Bring the top of the speaker onto the mouthpiece and hold the mouthpiece and unit speaker firmly together.
4. Press the QD-350 against the mouthpiece using the hand holding the handset (see Fig. A).



the last key operation. Once this occurs, power can be restored by pressing the key. Both stored data and memory contents are maintained when power is switched off by the auto power off function or by pressing the key.

DATA STORAGE FUNCTION

The data storage function of this unit allows storage of up to 50 data items. Each data item is divided into two groups. The first group (character portion) consists of 8 characters and can contain either letters or numbers. The second group (numeric portion) consists of numbers up to 36 digits long (standard length = 12 digits). Besides the normal data storage function which allows data recall with a press of the key, a secret function is also provided which requires input of a preset password or code before data is displayed.

DATA INPUT

• Example

Input the data: CASIO 201-361-5400

1. Press to specify the set mode.

SET DATA ?

Each press of switches between the set mode and the data display mode.

[SET MODE DISPLAY]

NO ENTRY

Data display without any data input

The illustration below shows the configuration of the character portion and numeric portion.

Character portion (8 characters)

Numeric portion (standard = 12 digits
maximum = 36 digits
display length = 12 digits)

* Only 12 digits of the numeric portion can be displayed at one time, and the remainder is scrolled using the and keys.

2. Press the keys as follows:

SET CASIO

* To change the input portion, move the cursor to the right using the key, and to the left using the key.

3. Press the key three times to move the cursor to the numeric portion of the display.

SET CASIO

* Up to 8 characters (alphabetic, numeric, symbol) can be input for the character portion of the display.

4. The same procedure is used for the input of numeric data. Actual numbers are input using the ten-key pad of the unit.

* The or key can be used between numbers. enters a space, while enters a hyphen.

The 12th and subsequent entries in the numeric display (including and) causes the displayed number to shift to the left. Each entry causes the leftmost digit (in the upper line of the numeric display) to scroll off of the display. Note, however, that values which scroll off of the display are still retained in memory.

SET CASIO 201-361-5400 → SET CASIO 01-361-5400

5. Press the key to store the above data.

SET CASIO 201-361-5400

SET DATA ?

Pressing the key switches to the set display for input of the next data item.

2. Input your password, following the same procedure as that for data input.

Example: Registering "ABC" as password

SET ABC----

3. Press the key, and "ABC" is registered as password.

Secret area indicator — SET DATA ?

* If the password input differs from the registered password, the secret area is not accessed. Reinput the right password.

Once a password is registered, it can only be altered or canceled by pressing the reset button on the back of the unit. (This operation causes all stored data to be erased.) If a registered password is forgotten, the only way to access the secret area is to reset the unit, erasing all data, registering a new password, and then reinputting data.

4. Input a data item and press key.

Press the key to continue data input to the secret area.

- * Be sure to press either or to cancel the secret area and return to the normal area.
- * Attempting to register a password longer than 8 characters will result in a password made up of the first 8 characters input only.
- * Only one password can be registered at a time.

RECALLING DATA FROM THE SECRET AREA

1. Press the key, and the password registering display appears.
2. Input the password ("ABC" in the password registration example) and press the key. This operation accesses the secret area and displays the first data item contained in that area. (see "DATA RECALL")
- * If the password input differs from the registered password, the password registering display appears again and the secret area is not accessed. Reinput the right password.

ADDING SECRET AREA DATA

1. Access the secret area.
2. Press for the set mode display.
3. Input the data to be added.

Data in the secret area can also be edited or deleted. (see "CORRECTING EXISTING DATA ITEMS", or "DELETING EXISTING DATA ITEMS")

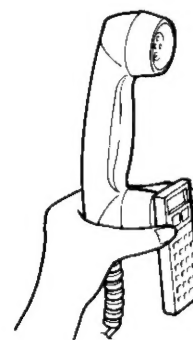
AUTO DIAL FUNCTION

Pressing the key after recalling the desired telephone number automatically dials the displayed number.

• Positioning on the Handset

1. Lift the handset of the telephone and hold it vertically as illustrated.
2. Bring the bottom of the speaker on the back of the unit into contact with the recessed portion of the mouthpiece.
3. Bring the top of the speaker onto the mouthpiece and hold the mouthpiece and unit speaker firmly together.
4. Press the QD-350 against the mouthpiece using the hand holding the handset (see Fig. A).

Fig. A



5. Be sure that the center of the unit speaker and the center of the telephone mouthpiece are facing directly at each other.

• Volume Control Dial

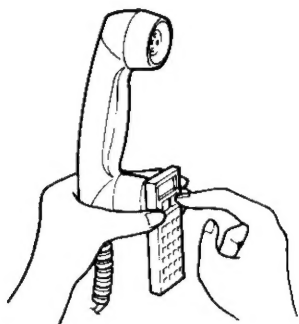
A volume control dial is located on the left side of the unit. Rotating downwards increases volume, while rotating it upwards decreases volume whenever dialing is unsuccessful.

• Operation

1. Recall the desired number using the $\overline{\text{TR}}$ key after pressing the AC key.

CASIO 201-
361-5400

2. Securely set the QD-350 against the handset of the telephone as described in "Positioning on the Handset".
3. Holding the handset vertically as illustrated.



4. Press the $\overline{\text{TR}}$ key.

CASIO 201-
361-5400

The symbol " " appears on the display as tones sound to dial the number selected. Only the numbers and such telephone related symbols as * and # shown on the 2nd group display are dialed.

NOTES: If the call is not properly dialed, hang up and attempt dialing again.

LOCAL FUNCTION

The local function makes it possible to select between dialing either with or without the area code. In the previous example, the number 201-361-5400 was entered under the name CASIO. The following procedure shows how to dial the number without the area code 201.

• Input

1. Press the SET key to show the set display, and recall the previous data using the $\overline{\text{TR}}$ key.

SET CASIO 201-
361-5400

2. Press the LOCAL key twelve times to move the cursor to the position immediately following 201.

SET CASIO 201-
361-5400

3. Press the LOCAL key to enter a local mark at the cursor position.

SET CASIO 201- Local mark
-61-5400

- * The local mark can be inserted at any position in the 2nd group display. Only one local mark can be used per data item.

4. Press the $\overline{\text{TR}}$ key to enter the data into memory.

- * The same result as that above can also be obtained during initial input of the telephone number using the following operation:

[2] [0] [1] [LOCAL] [3] [6] [1] [LOCAL] (or -) [5] [4] [0] [0] $\overline{\text{TR}}$

• Using the Local Function

1. Press the $\overline{\text{TR}}$ key to recall the data with the local mark.

CASIO 201-
361-5400

2. Next press the LOCAL key.

CASIO 361-
5400

3. Press the LOCAL key again.

• Operation Example

Input the data given below, and then dial the telephone number followed by the credit card number. This is a simulation of a credit card call.

Telephone number: CASIO 0201-361-5400

0 required for credit card call

Credit card number: 12345678901234 (stored in CREDIT 1)

1. Press $\overline{\text{TR}}$ and then $\overline{\text{TR}}$ to recall the telephone number.

CASIO 0201-
361-5400

2. Properly set the QD-350 against the handset of the telephone and press $\overline{\text{TR}}$. You should be able to hear the dialing tones from the speaker.
3. Press CREDIT to recall the credit card number.

CREDIT 1 1234
56789012

4. Press $\overline{\text{TR}}$ again to dial the credit card number.

JOINT FUNCTION

The Joint Function can be used to link an access code or ID code stored in the CRD/ID area with a telephone number for combined dialing.

• Operation

1. Use $\overline{\text{TR}}$ to recall the telephone number to be dialed.
2. Press CREDIT (ID symbol appears on the display).
3. Press CREDIT to recall the code to be used.
4. Press $\overline{\text{TR}}$. The code will be dialed first, immediately followed by the telephone number.

- * A pause symbol can be inserted between the code and telephone number if required (see PAUSE FUNCTION).

• Example

Input the data given below, and then dial the access code followed by a credit card call.

Access code: 9501022P (stored in CREDIT 1)

Pause symbol (Use PAUSE key.)

Telephone number: CASIO 0201-361-5400

0 required for credit card call

Credit card number: 12345678901234 (stored in CREDIT 2)

1. Press $\overline{\text{TR}}$ and then $\overline{\text{TR}}$ to recall the telephone number.

CASIO 0201-
361-5400

2. Press CREDIT .

CASIO 0201-
361-5400

3. Press CREDIT to recall the access code stored in CREDIT 1.

1: CASIO 9501
022P

4. Properly set the QD-350 against the handset of the telephone and press $\overline{\text{TR}}$.

1: CASIO P

The access code is first dialed, and then the QD-350 pauses for the pause symbol.

5. Press $\overline{\text{TR}}$ again. Now the telephone number is dialed.

- * After the telephone number is dialed, the display returns to the access code.

6. Press CREDIT twice to recall the credit card number stored in CREDIT 2.

CREDIT 2 1234
56789012

7. Press $\overline{\text{TR}}$ again to dial the credit card number.

PAUSE FUNCTION

Pause (P) symbols can be included inside of telephone number or code numbers. Dialing of a number (after $\overline{\text{TR}}$ is pressed) is automatically stopped when the QD-350 finds a pause symbol. Pauses are often used when an interval is required between a code and the telephone number combined using the Joint Function.

• Pause Interval

The length of a pause is determined by the number of pause symbols used.

CASIO 2010
361-5400

Next press the **PAUSE** key.

CASIO 361-
5400

Press the **PAUSE** key again.

CASIO 2010
361-5400

With press of the **PAUSE** key switches between display of the telephone number and without the area code (in this example 201).

DIAL FUNCTION

The redial function makes it possible to automatically recall and redial the last number previously dialed. Even if power has since been switched OFF, or during use of the calculator function, simply pressing the **RECALL** key instantly recalls the most recent number dialed and dials it again (except for secret data).

REDIAL 2010
361-5400

"REDIAL" appears on display to indicate function.

IMPORTANT

This unit is designed for use with push-button telephones and cannot be used for dial telephones. Certain push button telephones do not employ the push-button system and cannot be used with this unit. Check whether the telephone being used is a push-button type by pressing a few buttons on the telephone and listening to the sound produced. Problems in dialing may be experienced using a telephone with a damaged or soiled receiver, damaged wiring, a covering on the receiver, or any other obstruction on the receiver.

Frequently tapping the telephone receiver several times on a hard surface will loosen carbon particles in the microphone and improve unit operation.



Problems in dialing may also be experienced in train stations, near busy roads, or any other area subjected to high noise levels.

CRD/ID NUMBER STORAGE FUNCTION

This unit is equipped with a memory area that allows storage of three credit card numbers, access codes or ID codes, up to a maximum of 36 characters for each number. This function is useful for such applications as credit card telephone calls.

INPUT

Enter the credit card number 12345678901234 into the CREDIT 1. Press **CRD** and **ENTER** to specify the set mode.

EDIT 1
301234

Enter the credit card number using the number keys.

EDIT 14567
301234

Press **CRD** to store the number.

EDIT 11234
789012

* ► mark indicates that the data item length exceeds the display capacity.

Advance directly to input a number for CREDIT 2, press the **CRD** key again.

RECALL

Press **RECALL** and then **ENTER** to display the first number. Number are displayed in the sequence CREDIT 1, CREDIT 2, CREDIT 3, with each press of **RECALL**.

EDITING EXISTING NUMBERS

For storing a number using **CRD**. Use the **LEFT** and **RIGHT** keys to move the cursor to the position to be corrected, and press the key which produces the appropriate number or symbol. Be sure to finally press **CRD** to store the number in memory.

For storing numbers using **CRD**. Press **MODE** to change to the set mode display.

7. Press **CRD** again to dial the credit card number.

PAUSE FUNCTION

Pause (P) symbols can be included inside of telephone number or code numbers. Dialing of a number (after **CRD** is pressed) is automatically stopped when the QD-350 finds a pause symbol. Pauses are often used when an interval is required between a code and the telephone number combined using the Joint Function.

• Pause Interval

The length of a pause is determined by the number of pause symbols used.

Number of Pause Symbols	Interval
1	Until CRD is pressed again
2	Approximately 3 seconds
3	Approximately 6 seconds
...	...

Add approx. 3 seconds for each additional pause symbol.

CALCULATIONS

- Pressing the **CE** (clear) key cancels the latest numeric entry only.
- Incorrect entry of an operator (**+**, **-**, **×**, **÷**) can be corrected by pressing the key corresponding to the correct operator.
- Pressing the **AC** (all clear) key cancels an entire entry.
- Pressing the **MC** (memory clear) key clears memory contents.
- Double entry of an operator (**+**, **-**, **×**, **÷**) makes the numeric value followed by the double entry a constant.
- Besides symbols for each operator, the following indicators also appear on the display:
M: Numeric value in independent memory
K: Constant calculation being performed
E: Error condition
- The error condition is released by pressing the **AC** or **CE** key.
- Calculations should be performed after first pressing the **AC** key.

53 + 123 - 63 =	53 + 123 = 63	0.
963 × (23 - 56) =	23 - 56 = 963	113.
(56 × 3 - 89) ÷ 5.2 + 63 =	56 × 3 = 89	-31779.
123456 × 741852 =	5.2 + 63 =	78.192307
	123456 × 741852 =	E 915.86080
		915.86080
12 + 23 =	23 + 12 =	0.
45 + 23 =	45 =	K + 35.
78 + 23 =	78 =	K + 68.
7 - 5.6 =	5.6 - 7 =	K + 101.
2 - 5.6 =	2 =	K - 1.4
2.3 × 12 =	12 × 2.3 =	K - -3.6
4.5 × 12 =	4.5 =	K × 27.6
45 ÷ 9.6 =	9.6 ÷ 45 =	K × 54
78 ÷ 9.6 =	78 =	K ÷ 4.6875
12% of 1500	1500 × 12% =	K ÷ 8.125
Percentage of 660 against 880	660 ÷ 880 =	180.
15% add-on of 2500	2500 × 15% =	75.
25% discount of 3500	3500 × 25% =	2875.
What will the selling price and profit be when the purchasing price of an item is \$480 and the profit rate to the selling price is 25%?	480 × 25% =	2625.
If you made \$80 last week and \$100 this week, what is the percent increase?	100 - 80 =	640.
		160.
80 × 9 = 720	80 × 9 =	25.
-150 × 6 = 300	50 × 6 =	720.
20 × 3 = 60	20 × 3 =	300.
480		60.

SPECIFICATIONS

DATA STORAGE

Functions: Data storage/recall (50 items maximum), local function, CRD/ID number storage/recall, secret function, number of stored data item display, input data editing
Input capacity: 8 alphabetic characters or numbers + 12 numbers (36 numbers maximum) per item

AUTO DIAL FUNCTION

Functions: Automatic dial of push-button telephones, redial function, joint function, pause function

CALCULATION

Functions: Addition, subtraction, multiplication, division, constants for +/÷, ×/÷, memory calculations, percentage calculations including add-ons/discounts and mark-ups, 16-digit approximate calculations and various other practical calculations
Capacity: 8 digits
Decimal point: Full-floating with underflow
Overflow check: Indicated by "E" sign, locking of calculator

REDIAL FUNCTION

The redial function makes it possible to automatically recall and redial the last number previously dialed. Even if power has since been switched OFF, or during use of the calculator function, simply pressing the \mathcal{R} key instantly recalls the most recent number dialed and dials it again (except for secret data).

REDIAL 2016
361-5400

"REDIAL" appears on display to indicate function.

IMPORTANT

- This unit is designed for use with push-button telephones and cannot be used for dial telephones.
- Certain push button telephones do not employ the push-button system and cannot be used with this unit. Check whether the telephone being used is a push-button type by pressing a few buttons on the telephone and listening to the sound produced.
- Problems in dialing may be experienced using a telephone with a damaged or soiled receiver, damaged wiring, a covering on the receiver, or any other obstruction on the receiver.
- Gently tapping the telephone receiver several times on a hard surface will loosen carbon particles in the microphone and improve unit operation.



- Problems in dialing may also be experienced in train stations, near busy roads, or any other area subjected to high noise levels.

CRD/ID NUMBER STORAGE FUNCTION

This unit is equipped with a memory area that allows storage of three credit card numbers, access codes or ID codes, up to a maximum of 36 characters for each number.

This function is useful for such applications as credit card telephone calls.

DATA INPUT

Input the credit card number 12345678901234 into the CREDIT 1.

- Press \mathcal{M} and \mathcal{M} to specify the set mode.

SET CREDIT 1

- Enter the credit card number using the number keys.

SET CREDIT 1 4567
8901234

- Press \mathcal{R} to store the number.

SET CREDIT 1 1234
56789012

* mark indicates that the data item length exceeds the display capacity.

- To advance directly to input a number for CREDIT 2, press the \mathcal{M} key again.

DATA RECALL

- Press \mathcal{R} .
- Press \mathcal{R} and then \mathcal{M} to display the first number. Number are displayed in the sequence CREDIT 1, CREDIT 2, CREDIT 3, with each press of \mathcal{M} .

CORRECTING EXISTING NUMBERS

Prior to storing a number using \mathcal{R}

- Use the \mathcal{L} and \mathcal{R} keys to move the cursor to the position to be corrected, and press the key which produces the appropriate number or symbol.
- Be sure to finally press \mathcal{R} to store the number in memory.

After storing numbers using \mathcal{R}

- Press \mathcal{M} to change to the set mode display.
- Press \mathcal{M} to display the number to be corrected.
- Press \mathcal{L} to locate the cursor at the beginning of the number, or \mathcal{R} at the end of display.
- Use the \mathcal{L} and \mathcal{R} keys to move the cursor to the position to be corrected and press the proper number or symbol keys.
- Be sure to finally press \mathcal{R} to store the number in memory.

DELETING EXISTING NUMBERS

- Press \mathcal{M} to change to the set mode display.
- Press \mathcal{M} to display the number to be deleted.
- Press \mathcal{C} to delete the displayed number and display the next number.

Add approx. 3 seconds for each additional pause symbol.

CALCULATIONS

- Pressing the \mathcal{C} (clear) key cancels the latest numeric entry only.
- Incorrect entry of an operator ($+$, $-$, \times , \div) can be corrected by pressing the key corresponding to the correct operator.
- Pressing the \mathcal{AC} (all clear) key cancels an entire entry.
- Pressing the \mathcal{MC} (memory clear) key clears memory contents.
- Double entry of an operator ($+$, $-$, \times , \div) makes the numeric value followed by the double entry a constant.
- Besides symbols for each operator, the following indicators also appear on the display:
M: Numeric value in independent memory
K: Constant calculation being performed
E: Error condition
- The error condition is released by pressing the \mathcal{AC} or \mathcal{C} key.
- Calculations should be performed after first pressing the \mathcal{AC} key.

53 + 123 - 63 =	53 \mathcal{AC} 123 \mathcal{AC} 63 \mathcal{AC}	0
963 \times (23 - 56) =	23 \mathcal{AC} 56 \mathcal{AC} 963 \mathcal{AC}	113
(56 \times 3 - 89) \div 5.2 + 63 =	56 \mathcal{AC} 3 \mathcal{AC} 89 \mathcal{AC}	-31779
123456 \times 741852 =	5.2 \mathcal{AC} 63 \mathcal{AC}	78.192307
12 + 23 =	123456 \mathcal{AC} 741852 \mathcal{AC}	E915.86080
45 + 23 =	23 \mathcal{AC} 12 \mathcal{AC}	915.86080
78 + 23 =	45 \mathcal{AC}	0
7 - 5.6 =	78 \mathcal{AC}	K + 35
2 - 5.6 =	5.6 \mathcal{AC} 7 \mathcal{AC}	K + 68
2.3 \times 12 =	2 \mathcal{AC}	K + 101
4.5 \times 12 =	12 \mathcal{AC} 2.3 \mathcal{AC}	K - 1.4
45 \div 9.6 =	4.5 \mathcal{AC}	K - -3.6
78 \div 9.6 =	9.6 \mathcal{AC} 45 \mathcal{AC}	K \times 27.6
12% of 1500	78 \mathcal{AC}	K \times 54
Percentage of 660 against 880	1500 \mathcal{AC} 12 \mathcal{AC}	K \div 4.6875
15% add-on of 2500	660 \mathcal{AC} 880 \mathcal{AC}	K \div 8.125
25% discount of 3500	2500 \mathcal{AC} 15 \mathcal{AC}	180
What will the selling price and profit be when the purchasing price of an item is \$480 and the profit rate to the selling price is 25%?	3500 \mathcal{AC} 25 \mathcal{AC}	75
If you made \$80 last week and \$100 this week, what is the percent increase?	480 \mathcal{AC} 25 \mathcal{AC}	2875
	100 \mathcal{AC} 80 \mathcal{AC}	2625
		640
		160
		25
80 \times 9 = 720	80 \mathcal{AC} 9 \mathcal{AC}	M 720
- 50 \times 6 = 300	50 \mathcal{AC} 6 \mathcal{AC}	M 300
20 \times 3 = 60	20 \mathcal{AC} 3 \mathcal{AC}	M 60
480		M 480

SPECIFICATIONS

DATA STORAGE

Functions: Data storage/recall (50 items maximum), local function, CRD/ID number storage/recall, secret function, number of stored data item display, input data editing

Input capacity: 8 alphabetic characters or numbers + 12 numbers (36 numbers maximum) per item

AUTO DIAL FUNCTION

Functions: Automatic dial of push-button telephones, redial function, joint function, pause function

CALCULATION

Functions: Addition, subtraction, multiplication, division, constants for $+/-$, \times $+/-$, memory calculations, percentage calculations including add-ons/discounts and mark-ups, 16-digit approximate calculations and various other practical calculations

Capacity: 8 digits

Decimal point: Full-floating with underflow

Overflow check: Indicated by "E" sign, locking of calculator

GENERAL

Display: Liquid crystal display

Main component: LSI

Power consumption: 0.02W

Battery life: Approximately 1,260 hours on CR2025 for calculation and storage only, approximately 20,000 consecutive dial operations.

Power supply: Two lithium batteries (CR2025)

Auto power off: Approximately 6 minutes after last key operation

Ambient temperature range: 0°C ~ 40°C (32°F ~ 104°F)

Dimensions: 16.5(H) \times 64(W) \times 124(D) mm
(5/8" (H) \times 2 1/2" (W) \times 4 7/8" (D)).....Folded
16.5(H) \times 64(W) \times 191(D) mm
(5/8" (H) \times 2 1/2" (W) \times 7 1/2" (D)).....Unfolded

Weight: 80g (2.8oz) including batteries